

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of object processing groups in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to measure ~~the~~a weight ~~corresponding to~~of each of the ~~object processing groups of objects loaded in buckets of a centrifuge;~~

a ~~determination~~detector device communicating with the measuring device and configured to ~~determine~~detect ~~a variation of~~a difference between the weight of each of the object processing groups ~~of the objects with reference to~~and a corresponding reference value, ~~based on the weight of each of the processing groups measured by the measuring device; and~~

an adjusting/loading device communicating with the detector device and configured to make predetermined weight adjustments to each of the processing groups in accordance with the ~~difference~~determination the determination device makes, and to, the adjusting/loading device subsequently ~~load~~loading the processing groups in the centrifuge.

2. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of object processing groups in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to measure a weight ~~corresponding to~~of each of the ~~object~~ processing groups ~~of objects before the processing groups are loaded in~~ the buckets of ~~a~~the centrifuge;

a ~~determination~~detector device communicating with the measuring device and configured to ~~determine~~detect ~~a variation of~~a difference between the weight of each of the object processing

~~groups with reference to and a corresponding reference value, based on the weight of each of the processing groups measured by the measuring device; and~~

an adjusting/loading device communicating with the detector device and configured to make predetermined weight adjustments to each of the processing groups in accordance with the difference determination the determination device makes, and to, the adjusting/loading device subsequently loadloading the processing groups in the centrifuge.

3. (Currently Amended) A loading-assisting apparatus according to claim 2, wherein the ~~determination~~detector device compares ~~measurement data, which represent the weight of each of the object processing group of the objects, groups with the reference data value,~~ and generates and ~~outputs variation-ranking signals corresponding to the differences between the measurement data~~weight and the reference data value, respectively.

4. (Currently Amended) A loading-assisting apparatus according to claim 3, wherein the adjusting/loading device includes means for adding a dummy object to each of the processing groups in accordance with the ~~variation-ranking~~ signals transmitted from the ~~determination~~detector device, and for subsequently ~~performing a loading operation with reference to the buckets of the centrifuge~~the processing groups.

5. (Currently Amended) A loading-assisting apparatus for ~~use with~~assisting loading of objects to be processed in buckets of a centrifuge, the apparatus comprising:

a measuring device configured to individually measure weights of the objects to be processed before the objects are loaded in the centrifuge;

means for sequentially loading the objects in buckets of the centrifuge after the measuring device measures the weights of the objects;

counters configured to add the weights of the objects sequentially loaded in the buckets of the centrifuge such that a total weight is obtained for each ~~of processing groups~~group of the objects loaded in the buckets;

a ~~determination~~detector device communicating with the counters and configured to ~~determine~~detect a ~~variation of~~difference between the weight of each ~~of the processing groups~~ with reference to group and a corresponding reference value, ~~based on the weight of each of the processing groups measured by the measuring device; and~~

an adjusting/loading device communicating with the detector device and configured to make weight adjustments to each of the groups already loaded in the buckets, in accordance with the ~~difference~~determination the ~~determination~~ device makes.

6. (Currently Amended) A loading-assisting apparatus for use with a centrifuge, according to claim 5, wherein the ~~determination~~detector device compares ~~measurement data, which represent a total~~the weight of each processing group of the objects; with the reference data, ~~and generates~~value, the detector device generating and outputs ~~variation~~ ranking signals corresponding to the differences between the ~~measurement data~~weight and the reference data~~value, respectively.~~

7. (Currently Amended) A loading-assisting apparatus ~~for use with a centrifuge,~~ according to claim 6, wherein the adjusting/loading device includes means for adding a dummy object to each of the processing groups loaded in the buckets in accordance with the ~~variation~~ ranking signals transmitted from the ~~determination~~detector device.